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|                 | 1  | What is claimed is: |  |  |
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|                 | 2  |                     |  |  |
|                 | 3  | 1.                  | A computer readable medium on which is embedded a computer program, the                    |  |
|                 | 4  |                     | computer program comprising:   |  |
|                 | 5  |                     | a plurality of interactions describing a plurality of messages to be received and/or       |  |
|                 | 6  |                     | transmitted; and   |  |
|                 | 7  |                     | at least one transition identifying the order of executing said plurality of interactions. |  |
|                 | 8  |                     |  |  |
|                 | 9  | 2.                  | The computer program of claim 1, wherein each of said plurality of interactions            |  |
|                 | 10 |                     | describes transmitting a message of said plurality of messages and/or receiving a          |  |
|                 | 11 |                     | message of said plurality of messages.   |  |
|                 | 12 |                     |  |  |
|                 | 13 | 3.                  | The computer program of claim 2, wherein at least one interaction of said plurality of     |  |
| L)              | 14 |                     | interactions is configured to select one message to be received or transmitted from a      |  |
| ů.              | 15 |                     | set of messages, said set of messages being included in said plurality of messages.        |  |
| ik.             | 16 |                     |  |  |
| Buch Apple Many | 17 | 4.                  | The computer program of claim 3, wherein said plurality of messages are XML                |  |
| # 15 A          | 18 |                     | documents.   |  |
| 224             | 19 | *                   |  |  |
|                 | 20 | 5.                  | The computer program of claim 1, wherein said at least one transition includes a           |  |
|                 | 21 |                     | source interaction of said plurality of interactions and a destination interaction of said |  |
|                 | 22 |                     | plurality of interactions, said source interaction being executed prior to said            |  |
|                 | 23 |                     | destination interaction.   |  |
|                 | 24 |                     |  |  |
|                 | 25 | 6.                  | The computer program of claim 5, wherein said at least one transition includes a           |  |
|                 | 26 |                     | triggering message of said plurality of messages, said triggering message invoking         |  |
|                 | 27 |                     | execution of said source interaction.  |  |
|                 | 28 |                     |  |  |
|                 | 29 |                     |  |  |

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| 1  | 7.  | The computer program of claim 5, wherein said at least one transition is an exception   |
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| 2  |     | transition, said destination interaction being executed when a message type that is not |
| 3  |     | expected by said source interaction is received.  |
| 4  |     |   |
| 5  | 8.  | The computer program of claim 5, wherein said at least one transition includes a        |
| 6  |     | default transition, said source interaction being executed when a message included in   |
| 7  |     | said source interaction that does not otherwise have a defined transition is received.  |
| 8  |     |   |
| 9  | 9.  | The computer program of claim 1, wherein said plurality of interactions describe a      |
| 10 |     | plurality of message types for said plurality of messages.                              |
| 11 |     |   |
| 12 | 10. | The computer program of claim 9, wherein said message types are schemas.                |
| 13 |     |   |
| 14 | 11. | The computer program of claim 10, wherein said schemas are XML schemas.                 |
| 15 |     |   |
| 16 | 12. | The computer program of claim 11, wherein said plurality of interactions include a      |
| 17 |     | location or a unique name for said XML schema.  |
| 18 |     |   |
| 19 | 13. | The computer program of claim 12, wherein said location or said unique name             |
| 20 |     | includes a URL or a URN.  |
| 21 |     |   |
| 22 | 14. | A computer configured to generate a conversation controller from a description file,    |
| 23 |     | said conversation controller being operable to perform a sequence of interactions       |
| 24 |     | described in said description file, and said sequence of interactions includes at least |
| 25 |     | one of receiving messages and transmitting messages.                                    |
| 26 |     |   |
| 27 | 15. | The computer of claim 14, wherein at least one interaction of said sequence of          |
| 28 |     | interactions is configured to select one message to be received or transmitted from a   |
| 29 |     | set of messages.  |
| 30 |     |   |
| 31 | 16. | The computer of claim 14, wherein said messages are XML documents.                      |

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| 2  | 17. | The computer of claim 14, further comprising at least one transition describing said       |
| 3  |     | sequence of interactions, said at least one transition including a source interaction of   |
| 4  |     | said interactions and a destination interaction of said interactions, said source          |
| 5  |     | interaction being executed prior to said destination interaction.                          |
| 6  |     |  |
| 7  | 18. | The computer program of claim 17, wherein said at least one transition includes a          |
| 8  |     | triggering message of said messages, said triggering message invoking execution of         |
| 9  |     | said source interaction.   |
| 10 |     |  |
| 11 | 19. | A computer providing a web service, said computer configured to communicate with           |
| 12 |     | another computer based on a plurality of interactions described in a description file,     |
| 13 |     | said plurality of interactions describing messages to be received and messages to be       |
| 14 |     | transmitted to said another computer to facilitate said web service.                       |
| 15 |     |  |
| 16 | 20. | The computer of claim 19, wherein said description file includes at least one              |
| 17 |     | transition describing at least one sequence for executing one or more of said plurality    |
| 18 |     | of interactions.   |
| 19 |     |  |
| 20 | 21. | The computer of claim 20, wherein said computer is connected to a registry storing a       |
| 21 |     | plurality of description files associated with a plurality of web services, said plurality |
| 22 |     | of description files including said description file including said at least one           |
| 23 |     | transition.  |
| 24 |     |  |
| 25 | 22. | The computer of claim 21, wherein said another computer retrieves said description         |
| 26 |     | file including said at least one transition and transmits and receives messages to said    |
| 27 |     | computer based on said description file including said at least one transition to utilize  |
| 28 |     | said web service provided by said computer.  |
| 29 |     |  |

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23.

The computer of claim 20, wherein said computer is connected to a registry storing a

plurality of description files associated with a plurality of web services, said plurality

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- of descriptions including a description of said description file including said at least 1 2 one transition.
- The computer of claim 21, wherein said another computer retrieves said description 4 24. file including said at least one transition and transmits and receives messages to said 5 computer based on said description file including said at least one transition to utilize 6 said web service provided by said computer. 7
  - The computer of claim 21, wherein each of said plurality of description files are 25. identified by a URN.
  - The computer of claim 19, wherein said messages are XML documents. 26.
  - The computer of claim 19, wherein said plurality of interactions describe a plurality 27. of message types to be received and a plurality of message types to be transmitted to said another computer.